#### PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION **04NPCT011** See paragraph 2 below International filing date (day/month/year) International application No. Priority date (day/month/year) PCT/JP2004/019589 28.12.2004 08.01.2004 International Patent Classification (IPC) or both national classification and IPC Applicant NEC CORPORATION This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer

Telephone No.

Facsimile No.

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/019589

Box	No. I	Basis of this opinion
1.		h regard to the lunguage, this opinion has been established on the basis of the international application in the language in which it was, unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under
	•	Rule 12.3 and 23.1(b)).
2.		h regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed antion, this opinion has been established on the basis of:
Į .	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing .
		contained in the international application as filed.
		tiled together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
ļ		
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed of furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application a filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Λdd	litional comments:
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### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/019589

			CHING AUTHORITY		PCT/JP2004/0195	0 7
Во			ale 43bis.1(a)(i) with rega porting such statement	rd to novelty, inventive	step or industrial applicability;	
1.	Statement					
	Novelty (N)	Claims	1-17			YES
		Claims	-			NO
						•
	Inventive step (IS)	Claims	1-17			YES
		Claims		· · · · · · · · · · · · · · · · · · ·		. NO
	Industrial applicability (IA)	Claims	1-17	•		YES
		Claims				NO
2.	Citations and explanations:	<del></del>	<del> </del>		•	
	Document 4: JP 10-27 Document 5: US 2003 December 2003, Full Document 6: JP 2001 all drawings Document 7: J.L. Hoy pp. 23-26 Document 8: JP 10-10 Document 9: JP 10-21 Paragraph 0154	70685 A 3/022702 lext; all c -217433 /t et al., 06966 A 4906 A (	(Sony Corp.), 09 19 A1 (AMBERW drawings A (Samsung Elect Strained Silicon M (Nippon Steel Co (Matsushita Elect ms 1-17 are neithe	October 1998, F 'AVE SYSTEM tronics Co., Ltd. MOSFET Technology, 24 April 19 ric Industrial Co	S CORPORATION), 11 ), 10 August 2001, Full clogy, IEDM 2002, 198, Full text; all drawin 1, Ltd.), 11 August 1998	gs,
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### PATENT COOPERATION TREATY

From the		NAL SEARCHIN	JG ALITHOR	ITY		TANO.		
To:	AIIO.	VAL SEARCHIA	d Author			PCT PCT		
						RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY		
						(PCT Rule 43bis.1)		
				· .	Date of mailing (day/month/year)			
Applica	nt's or a	gent's file referenc	ce		FOR FURTHER A	ACTION		
04NPCT011					See paragraph 2 below			
		plication No. 2004/019	589	International filing date (28.12.2004	day/monih/year)	Priority date (day/month/year) 08.01.2004		
Internati	ional Pa	tent Classification	(IPC) or both	national classification an	d IPC			
ļ., "				<del></del>				
Applica								
NEC	COI	RPORATIO	N					
1.	This c	pinion contains ir	ndications relat	ting to the following items	s:			
	$\boxtimes$	Box No. 1	Basis of the	opinion				
		Box No. II	Priority	•		`		
		Box No. III	Non-establis	shment of opinion with reg	gard to novelty, inventi	ive step and industrial applicability		
		Box No. IV	Lack of unit	y of invention				
		Box No. V		atement under Rule 43bis.  c; citations and explanation		novelty, inventive step or industrial ement		
		Box No. VI	Certain docu	aments cited	application ,			
		Box No. VII	Certain defe	ects in the international ap				
	Ш	Box No. VIII	Certain obse	ervations on the internatio	nal application			
2.	FURT	THER ACTION						
	Intern than t	ational Preliminar	ry Examining A IPEA and the	Authority ("IPEA") excep	ot that this does not app I the International Bur	I be considered to be a written opinion of the by where the applicant chooses an Authority other eau under Rule 66.1 <i>bis</i> (b) that written opinions of		
	writte	n reply together,	where approp		before the expiration	a, the applicant is invited to submit to the IPEA a of 3 months from the date of mailing of Form expires later.		
	For fu	rther options, see	Form PCT/IS/	A/220.				
3.	For fu	rther details, see i	notes to Form I	PCT/ISA/220.				
				<u> </u>				
Name a	nd maili	ng address of the	ISA/JP		Authorized officer			
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Form PCT/ISA/237 (cover sheet) (January 2004)

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/019589

Bux	Box No. 1 Basis of this opinion	
1.	<ol> <li>With regard to the language, this opinion filed, unless otherwise indicated under this</li> </ol>	has been established on the basis of the international application in the language in which it was item.
	This opinion has been established on	the basis of a translation from the original language into the following language
		, which is the language of a translation furnished for the purposes of international search (under
	Rule 12.3 and 23.1(b)).	
2.	<ol><li>With regard to any nucleotide and/or a invention, this opinion has been established</li></ol>	mino acid sequence disclosed in the international application and necessary to the claimed d on the basis of:
	a. type of material	
1	a sequence listing	•
	table(s) related to the sequence	listing
	b. format of material	
	in written format	
	in computer readable form	
	c. time of filing/furnishing	
	contained in the international a	pplication as filed.
	filed together with the internat	ional application in computer readable form.
	furnished subsequently to this	Authority for the purposes of search.
3.	furnished, the required statements th	han one version or copy of a sequence listing and/or table(s) relating thereto has been filed or at the information in the subsequent or additional copies is identical to that in the application as faction as filed, as appropriate, were furnished.
4.	4. Additional comments:	
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#### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/019589

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Box No			te 43bis.1(a)(i) with regard to nove porting such statement	lty, inventive ste	p or industrial applicability;	
1. S	Statement					
	Novelty (N)	Claims	1-17			YES
	•	Claims				- NO
		, and the second				-
	Inventive step (IS)	Claims	1-17	·		_ YES
		Claims				- NO
	Industrial applicability (IA)	Claims	1-17			YES
		Claims				NO
				<u> </u>		
2. (	Citations and explanations:		•			
I I I I I	Document 4: JP 10-27 Document 5: US 2003 December 2003, Full t Document 6: JP 2001- all drawings Document 7: J.L. Hoy pp. 23-26 Document 8: JP 10-10 Document 9: JP 10-214 Paragraph 0154  Claims 1-17 The inventions	(068.5 A) (022702) (ext; all c) (217433) t et al., s) (6966 A) (4906 A)	A (Hitachi, Ltd.), 13 Octobe (Sony Corp.), 09 Octobe 9 A1 (AMBERWAVE Strawings A (Samsung Electronics Strained Silicon MOSFE (Nippon Steel Corp.), 24 (Matsushita Electric Industrial Elec	r 1998, Full SYSTEMS ( Co., Ltd.), The Technolo April 1998 Istrial Co., I	I text; all drawings CORPORATION), 1 10 August 2001, Ful egy, IEDM 2002, 3, Full text; all drawin Ltd.), 11 August 199	l l text; ngs 8,